AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A magnetic memory comprising:

a spin polarization unit configured to spin-polarize electrons constituting a write current;

a hot electron generation unit configured to convert the electrons into hot electrons, the hot electron generation unit comprising an insulation film and a conductive portion, the conductive portion penetrating the insulation film in a thickness direction of the insulation film; and

a magnetic layer <u>having a</u> magnetization of which is reversed by the hot electrons.

- 2. (Original) The magnetic memory according to claim 1, wherein a response characteristic of an electric current flowing as a result of application of a voltage to the hot electron generation unit is non-linear.
- 3. (Original) The magnetic memory according to claim 1, wherein the hot electron generation unit includes an insulation film which enables the write current to tunnel through the insulation film in a thicknesswise direction thereof upon application of a voltage.
 - 4. (Currently Amended) The magnetic memory according to claim 1, wherein

the hot electron generation unit includes two conductive layers and an sandwiching the insulation film, and formed between the two conductive layers; and the insulation film includes a conductive area contact the conductive portion of the hot electron generation unit.

5. (Currently Amended) [[The]] A magnetic memory according to claim 1, comprising:

a spin polarization unit configured to spin-polarize electrons constituting a write current;

a hot electron generation unit configured to convert the electrons into hot electrons; and

a magnetic layer having a magnetization which is reversed by the hot electrons, wherein the hot electron generation unit includes a Schottky junction.

6. (Original) The magnetic memory according to claims 1, further comprising:
a magnetic layer in which a first crystal axis is aligned in a direction perpendicular
to a film surface; and

a non-magnetic layer which is stacked on the magnetic layer and in which a second crystal axis is aligned in the direction perpendicular to the film surface, wherein

one of a symmetry of an up-spin band and a symmetry of a down-spin band, which is achieved at an energy level higher than a Fermi energy level of electrons traveling in the direction of the first crystal axis in the magnetic layer, is not present in a band of electrons located at an energy level higher than the Fermi energy level of

electrons traveling in the direction of the second crystal axis in the non-magnetic layer.

- 7. (Original) The magnetic memory according to claims 1, wherein the spin polarization unit is a magnetic layer in which magnetization is fixed in substantially one direction.
- 8. (Currently Amended) A method of writing data into a magnetic memory, the magnetic memory including a hot electron generation unit, the hot electron generation unit including a conductive portion penetrating an insulating film in a thickness direction of the insulating film, the method comprising:

spin-polarizing electrons constituting a write current;

converting the electrons into hot electrons by causing the write current to flow through the conductive portion; and

reversing magnetization of a magnetic layer by the hot electrons.

- 9. (Original) A magnetic memory comprising:
- a first electrode;
- a first magnetic layer formed above the first electrode;
- a first non-magnetic layer formed on the first magnetic layer;
- a second magnetic layer formed on the first non-magnetic layer;
- a first insulation film formed on the second magnetic layer;
- a first layer formed on the first insulation film;
- a second non-magnetic layer formed on the first layer; and

a second electrode formed on the second non-magnetic layer.

- 10. (Original) The magnetic memory according to claim 9, wherein the first layer is a non-magnetic layer.
- 11. (Original) The magnetic memory according to claim 9, further comprising:
 a second insulation film formed between the first electrode and the first magnetic layer, wherein the first layer is a non-magnetic layer.
- 12. (Original) The magnetic memory according to claim 9, further comprising:
 a second insulation film formed between the first electrode and the first magnetic layer, wherein the first layer is a magnetic layer.
- 13. (Original) The magnetic memory according to claim 9, further comprising:
 a second insulation film formed between the first electrode and the first magnetic layer, wherein:

the first layer is a magnetic layer; and the first non-magnetic layer is a third electrode.